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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/876,277	06/07/2001	Brian S. Forbes	INTL-0577-US (P11464)	8806
75	590 09/20/2004	•	EXAM	INER
Timothy N. Trop			CONNOLLY, MARK A	
TROP, PRUNER & HU, P.C. 8554 KATY FWY, STE 100		ART UNIT	PAPER NUMBER	
HOUSTON, TX 77024-1805			2115	
			D. TE. M. H. ED. 00/20/200	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/876,277	FORBES ET AL.			
		Examiner	Art Unit			
		Mark Connolly	2115			
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the o	correspondence address			
THE - Externanter - If the - If NO - Failu Any (ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statuted the received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tir ly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)[🖂	Responsive to communication(s) filed on <u>21 June 2004</u> .					
2a)⊠	This action is FINAL . 2b) ☐ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>1-32</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) <u>1-32</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	awn from consideration.				
Applicati	ion Papers					
9)	The specification is objected to by the Examine	er.				
10)	[0] The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E					
Priority ι	ınder 35 U.S.C. § 119					
a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat prity documents have been receiv tu (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachmen		_				
	e of References Cited (PTO-892) 8 e of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Pap <i>e</i> r No(s)/Mail D	/ (PTO-413) rate			
3) 🔲 Infori	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 or No(s)/Mail Date		Patent Application (PTO-152)			

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DETAILED ACTION

1. Claims 1-32 have been presented for examination.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicants Admitted Prior Art [AAPA] in view of Price US Pat No 5900768.
- 4. Referring to claim 1, the AAPA teaches the invention substantially including a supply voltage plane not receiving power from a power resource of the computer in response to a predetermined sleep state [page 1 lines 19-21]. The lowest power sleep state is interpreted as the predetermined sleep state.

The AAPA does not teach:

- a. in response to the computer being in a predetermined sleep state, coupling a load to conduct current from a supply voltage plane of the computer to ground to prevent a back-driven voltage on the supply voltage plane
- b. in response to the computer being in a predetermined state other than the predetermined sleep state, decoupling the load so that the load does not conduct current from the supply voltage plane to ground

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In summary, the AAPA does not teach grounding the power plane when the power supply is disconnected from the computer to prevent back-driven voltage and removing the power plane from ground when the power supply is reconnected to the computer.

Price teaches grounding a power plane while a power supply is disconnected from the computer to prevent back-driven voltage and removing the power plane from ground when the power supply is reconnected to the computer [col. 1 lines 14-19 and 55-67, col. 2 lines 39-49 and col. 3 lines 26-33]. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the AAPA system to ground the power plane when the power supply is disconnected from the computer and removing the power plane when the power supply is reconnected because it will provide a means to prevent initialization problems associated with floating power lines yet still maintain efficiency of the power supply [col. 1 lines 20-30 and 63-67]. It is interpreted in the AAPA-Price system that the power supply is disconnected during a predetermined sleep state and reconnected once the computer wakes from the predetermined sleep state.

- 5. Referring to claim 2, waking from the predetermined sleep state is interpreted as a higher power state than a sleep state since the predetermined sleep state is the lowest power sleep state as described above.
- 6. Referring to claim 3, the AAPA teaches that there are higher power sleep states which the computer can enter [page 1 lines 11-18].
- 7. Referring to claim 4, the AAPA teaches a range of sleep states that remove the power supply from the computer [page 1 lines 16-21].

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8. Referring to claim 5, the AAPA teaches that the range of sleep states comprise the lowest power sleep states [page 1 lines 16-21].

- 9. Referring to claim 6, Price teaches controlling a voltage on a supply voltage plane produced by a powered peripheral [col. 1 lines 26-30 and col. 2 lines 39-49]. Holding the supply voltage plane at ground is interpreted as controlling.
- 10. Referring to claims 7 and 8, Price teaches activating and deactivating a switch to establish and remove a path between the supply voltage plane and ground [208 Fig. 2].
- 11. Referring to claim 9, it is obvious that in the AAPA-Price system that the power supply must be coupled to the computer when awaking from the predetermined sleep state so that power can be supplied to the computer.
- 12. Referring to claim 10, the AAPA teaches that the power is supplied through a voltage regulator [page 1 lines 19-21].
- 13. Referring to claims 11-26, these are rejected on the same basis as set forth hereinabove.

 The AAPA and Price teach the method and therefore teach the system performing the method.
- 14. Referring to claim 27, Price teaches grounding the supply voltage plane [col. 1 lines 14-19 and col. 2 lines 39-49].
- 15. Referring to claim 28, Price teaches providing a "very low impedance between the power line 202 and return line 206" [col. 3 lines 21-22]. It is obvious that this impedance could be between 1-10 ohms because 1-10 ohms is a very low impedance.
- 16. Referring to claims 29-32 these are rejected on the same basis as set forth hereinabove.

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Conclusion

17. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Connolly whose telephone number is (703) 305-7849. The examiner can normally be reached on M-F 8AM-5PM (except every first Friday).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas C Lee can be reached on (703) 305-9717. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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PHONE NUMBERS WILL CHANGE COME OCTOBER 13th.

Mark Connolly (571) 272-3666

Thomas C Lee (571) 272-3667

Tech Center Main Number (571) 272-2100

Mark Connolly Examiner Art Unit 2115

mc September 9, 2004

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100